GetBezierCuvDerivat.txt

```
功能: deCasteliau算法计算n次贝齐尔曲线p(t)参数为t那点处的jd阶导矢pt,若jd=0, pt=p(t)。 输入参数: n-项点数减1即次数; m-aVertex-控制项点,为受保护成员; t-参数值; jd-导矢阶数(若求曲线上的点,输入jd=0)。
输出参数: pt-曲线上参数为t的点(当jd=0)或jd阶导矢(当jd≥1)。
void GetBezierCuvDerivat(int n, int jd, double t, CPoint &pt)
            CArray<double, double> TemVertex_x;
CArray<double, double> TemVertex_y;
            TemVertex_x. SetSize(n+1);
TemVertex_y. SetSize(n+1);
            pt.x=0;
            pt. y=0;
if (jd>n) return;
            if(n)=0\&\&jd <=n)
                        for (int i0=0; i0 \le n; i0++)
                                   TemVertex_x[i0]=m_aVertex[i0].x;
TemVertex_y[i0]=m_aVertex[i0].y;
                        for (int i1=1; i1<=n-jd; i1++)
                                    for (int j=0; j \le n-i1; j++)
                                               TemVertex_x[j]=TemVertex_x[j]+t*(TemVertex_x[j+1]-TemVertex_x [j];
TemVertex_y[j]=TemVertex_y[j]+t*(TemVertex_y[j+1]-TemVertex_y[j]);
            int njd=1;
if (jd!=0)
                        for (int 11=1;11 \le jd;11++)
                                    njd=njd*(n-11+1);
                                    for (int j=0; j <= jd-11; j++)
                                                \begin{array}{l} TemVertex\_x[j] = TemVertex\_x[j+1] - TemVertex\_x[j]; \\ TemVertex\_y[j] = TemVertex\_y[j+1] - TemVertex\_y[j]; \end{array} 
            pt. x=int(njd*TemVertex_x[0]);
            pt. y=int(njd*TemVertex_y[0]);
}
```